15

What Is Claimed Is:

- A seal pattern of a liquid crystal display device, comprising:
 a substrate having a plurality of unit cell regions;
- a plurality of main seal patterns on the substrate, each main seal pattern being
 formed at a boundary of a corresponding unit cell region except for one unit cell region;
 and
 - a first sub-seal pattern surrounding all of the main seal patterns and having a plurality of open portions.
 - 2. The seal pattern according to claim 1, wherein the unit cell regions are arranged with one of a plurality of columns and a plurality of rows.
 - 3. The seal pattern according to claim 2, wherein the main seal pattern is formed at a boundary of the one of a plurality of columns and a plurality of rows.
 - 4. The seal pattern according to claim 1, further comprising a second subseal pattern between the unit cell regions.
- 5. The seal pattern according to claim 1, wherein the open portions are in the unit cell region having no main seal pattern.
 - 6. The seal pattern according to claim 1, further comprising a plurality of additional seal patterns at the open portion.

15

- 7. The seal pattern according to claim 6, wherein the additional seal patterns vent air in the unit cell region.
- 5 8. A method of forming a seal pattern of liquid crystal display device, comprising:

preparing a substrate having a plurality of unit cell regions;

forming a plurality of main seal patterns on the substrate, each main seal pattern being disposed at a boundary of a corresponding unit cell region except for one unit cell region; and

forming a first sub-seal pattern surrounding all of the main seal patterns and having a plurality of open portions.

- 9. The method according to claim 8, wherein the unit cell regions are arranged with one of a plurality of columns and a plurality of rows.
- 10. The method according to claim 9, wherein the main seal pattern is formed at a boundary of the one of a plurality of columns and a plurality of rows.
- 20 11. The method according to claim 8, further comprising forming a second sub-seal pattern between the unit cell regions.

15

20

- 12. The method according to claim 8, wherein the open portions are in the unit cell region having no main seal pattern.
- 13. The method according to claim 8, further comprising forming a pluralityof additional seal patterns at the open portion.
 - 14. The method according to claim 13, wherein the additional seal pattern vent an air in the unit cell region.
 - 15. The method according to claim 8, further comprising etching the substrate using an etchant.
 - 16. The method according to claim 15, wherein the etchant is hydrofluoric acid.
 - 17. A seal pattern of a liquid crystal display device, comprising:

 a glass substrate having a plurality of unit cell regions;
 - a plurality of main seal patterns on the substrate, each main seal pattern being formed at a boundary of a corresponding one of the unit cell regions except for at least one middle unit cell region;
 - a plurality of injection holes each formed at a lower center portion of a corresponding main seal pattern;

15

25

a first sub-seal pattern surrounding all of the main seal patterns and having a plurality of air vent portions;

a plurality of additional seal patterns for air ventilation each formed at a corresponding air vent portion; and

5 a second sub-seal pattern having a plurality of open portions.

- 18. The seal pattern according to claim 17, wherein the number of unit cell regions is at least 3.
- 19. The seal pattern according to claim 17, wherein the width of the plurality of seal patterns for air ventilation is about 1.5 to 2 mm.
- 20. The seal pattern according to claim 17, wherein the length of the plurality of seal patterns for air ventilation is about 70 to 100 mm.
- 21. The seal pattern according to claim 17, wherein the air vent portions are disposed on at least two inner sides of the at least one middle unit cell region.
- 20 22. A method of forming a seal pattern of liquid crystal display device, comprising:

preparing a glass substrate having a plurality of unit cell regions;

forming a plurality of main seal patterns on the substrate, each main seal pattern being disposed at a boundary of a corresponding unit cell region except for one middle unit cell region;

forming a first sub-seal pattern surrounding all of the main seal patterns and having a plurality of air vent portions;

forming a plurality of additional seal patterns for air ventilation at each corresponding air vent portion; and

forming a second sub-seal pattern having a plurality of open portions.